The listing of claims shown below will replace all prior versions, and listings of claims

in the Application:

1. (Amended) A Micro-Electro-Mechanical System apparatus, comprising:

a substrate;

a passivation layer on the substrate, the passivation layer having a top surface; and

a microstructure suspended above the substrate, the microstructure having a bottom

surface facing the top surface of the passivation layer, the microstructure being moveable

toward the passivation layer so as to touch the passivation layer;

wherein the passivation layer is patterned to form a plurality of spaced

protuberances.

2. (Previously Cancelled)

3. (Previously Presented) The Micro-Electro-Mechanical System apparatus

of claim 1, wherein the bottom surface of the microstructure is substantially flat.

4. (Previously Presented) The Micro-Electro-Mechanical System apparatus

of claim 1, wherein at least one of the protuberances has a square cross section.

5. (Previously Presented) The Micro-Electro-Mechanical System apparatus

2

of claim 1, wherein at least one of the protuberances has a rectangular cross section.

- 6. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein at least one of the protuberances has a hexagonal cross section.
- 7. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein the passivation layer is patterned to form a mesh.
- 8. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 7, wherein the bottom surface of the microstructure is substantially flat.
- 9. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 7, wherein the mesh is a square mesh.
- 10. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 7, wherein the mesh is a hexagonal mesh.
- 11. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein the passivation layer comprises polyimide.
- 12. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 1, wherein the passivation layer comprises silicon nitride.

- 13. (Amended) A Micro-Electro-Mechanical System apparatus, comprising: a substrate;
- a passivation layer on the substrate, the passivation layer having a top surface;
- a support attached to the substrate; and
- a beam attached at one end to the support and suspended above the substrate, the beam having a bottom surface facing the top surface of the passivation layer, the beam being moveable toward the passivation layer so as to touch the passivation layer;

wherein the passivation layer is patterned to form a plurality of spaced protuberances .

- 14. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, further comprising a second support attached to the substrate and wherein the beam is attached to the second support at a second end.
- 15. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, further comprising a bottom electrode on the substrate and underneath the bottom surface of the beam.
 - 16. (Previously Cancelled)
 - 17. (Previously Presented) The Micro-Electro-Mechanical System apparatus

of claim 13, wherein the bottom surface of the beam is substantially flat.

- 18. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein at least one of the protuberances has a square cross section.
- 19. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein at least one of the protuberances has a rectangular cross section.
- 20. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein at least one of the protuberances has a hexagonal cross section.
- 21. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 13, wherein the passivation layer is patterned to form a mesh.
- 22. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 21, wherein the bottom surface of the beam is substantially flat.
- 23. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 21, wherein the mesh is a square mesh.
- 24. (Previously Presented) The Micro-Electro-Mechanical System apparatus of claim 21, wherein the mesh is a hexagonal mesh.

25. (Previously Presented) The Micro-Electro-Mechanical System apparatus

of claim 13, wherein the passivation layer comprises polyimide.

26. (Previously Presented) The Micro-Electro-Mechanical System apparatus

of claim 13, wherein the passivation layer comprises silicon nitride.

Claims 27-38 (Previously Cancelled)

39. (Previously Presented) The Micro-Electro-Mechanical System apparatus

of claim 1, wherein the passivation layer is made of a dielectric material selected from the

group consisting of silicon oxide, strontium titanate oxide, barium strontium titanate, and

benzocyclobutene.

40. (Previously Presented) The Micro-Electro-Mechanical System apparatus

of claim 13, wherein the passivation layer is made of a dielectric material selected from the

group consisting of silicon oxide, strontium titanate oxide, barium strontium titanate, and

benzocyclobutene.

6